Model #: 19XR-4547387CPH64-
Serial #: 1306Q7257

Product Data

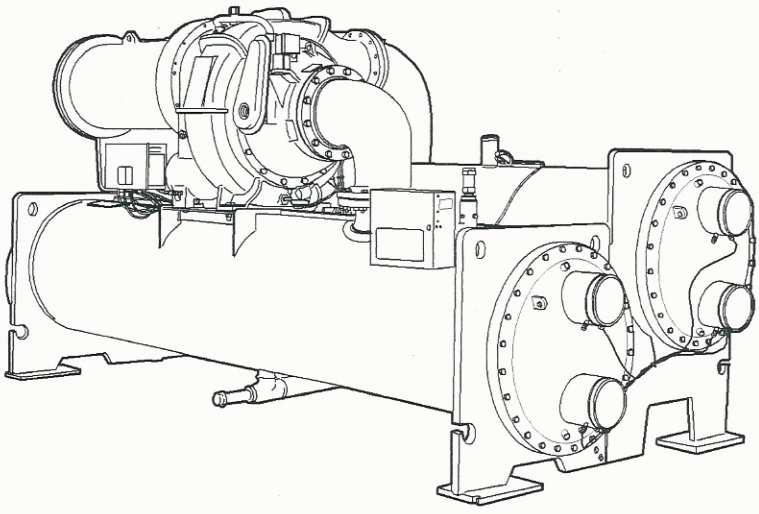
EVERGREEN®
19XR,XRV
High-Efficiency
Hermetic Centrifugal Liquid Chiller
50/60 Hz
HFC-134a

19XR — 200 to 1500 Nominal Tons (703 to 5275 kW)
19XRV — 200 to 1450 Nominal Tons (703 to 5100 kW)

L:16' 2"
W:6' 4"
H: 7' 6"

Evergreen® CHILLERS

Shipping Weight:17,470
Operating Weight: 19,587



19XR,XRV

Carrier's Evergreen® centrifugal chillers offer:

- The use of non-ozone depleting refrigerant HFC-134a, which is not affected by scheduled refrigerant phaseouts
- An annual leak rate of 0.1%, the lowest published in the industry
- The ability to store the entire charge of refrigerant inside the chiller, minimizing the chance of leaks during refrigerant transfer for maintenance
- Hermetic compression
- Refrigerant-cooled VFD (19XRV)
- Modular construction
- Positive pressure design

Features/Benefits

The Carrier-designed Evergreen family of chillers achieve superior efficiencies without compromising the environment.

The Evergreen chillers superior efficiencies are obtained at true operating conditions. Therefore, the effects of potential direct or indirect global warming are greatly diminished.

High efficiency

Today's owners of chilled water plants demand high efficiency from their chillers. Per ARI 550/590, chillers operate at design conditions less than one percent of the time. As a result, superior part-load efficiency is required for today's chilled water applications.

Model number nomenclature

19XR 45 47 387 CP H 64 -

19XR 52 51 473 DG H 64 –

Description
19XR — High Efficiency Hermetic Centrifugal Liquid Chiller

19XRV — Ultra High Efficiency Variable Speed Hermetic Centrifugal Liquid Chiller

Cooler Size
10-12 (Frame 1 XR)
15-17 (Frame 1 XR)
20-22 (Frame 2 XR)
30-32 (Frame 3 XR)
35-37 (Frame 3 XR)
40-42 (Frame 4 XR)
45-47 (Frame 4 XR)
50-52 (Frame 5 XR)
5A-5C (Frame 5 XR)*
5F-5H (Frame 5XR)*
60-62 (Frame 6 XR)
65-67 (Frame 6 XR)
70-72 (Frame 7 XR)
75-77 (Frame 7 XR)
80-82 (Frame 8 XR)
85-87 (Frame 8 XR)

Condenser Size
10-12 (Frame 1 XR)
15-17 (Frame 1 XR)
20-22 (Frame 2 XR)
30-32 (Frame 3 XR)
35-37 (Frame 3 XR)
40-42 (Frame 4 XR)
45-47 (Frame 4 XR)
50-52 (Frame 5 XR)
55-57 (Frame 5 XR)
60-62 (Frame 6 XR)
65-67 (Frame 6 XR)
70-72 (Frame 7 XR)
75-77 (Frame 7 XR)
80-82 (Frame 8 XR)
85-87 (Frame 8 XR)

Compressor Code
(First Digit Indicates Compressor Frame Size)

Special Order Indicator
– — Standard
S — Special Order

Motor Voltage Code

Code	Volts-Phase-Hertz
60	200-3-60
61	230-3-60
62	380-3-60
63	416-3-60
64	460-3-60
65	575-3-60
66	2400-3-60
67	3300-3-60
68	4160-3-60
69	6900-3-60
50	230-3-50
51	346-3-50
52	400-3-50
53	3000-3-50
54	3300-3-50
55	6300-3-50

Motor Efficiency Code
H — High Efficiency
S — Standard Efficiency

Motor Code†

c UL us

ASME 'U' Stamp

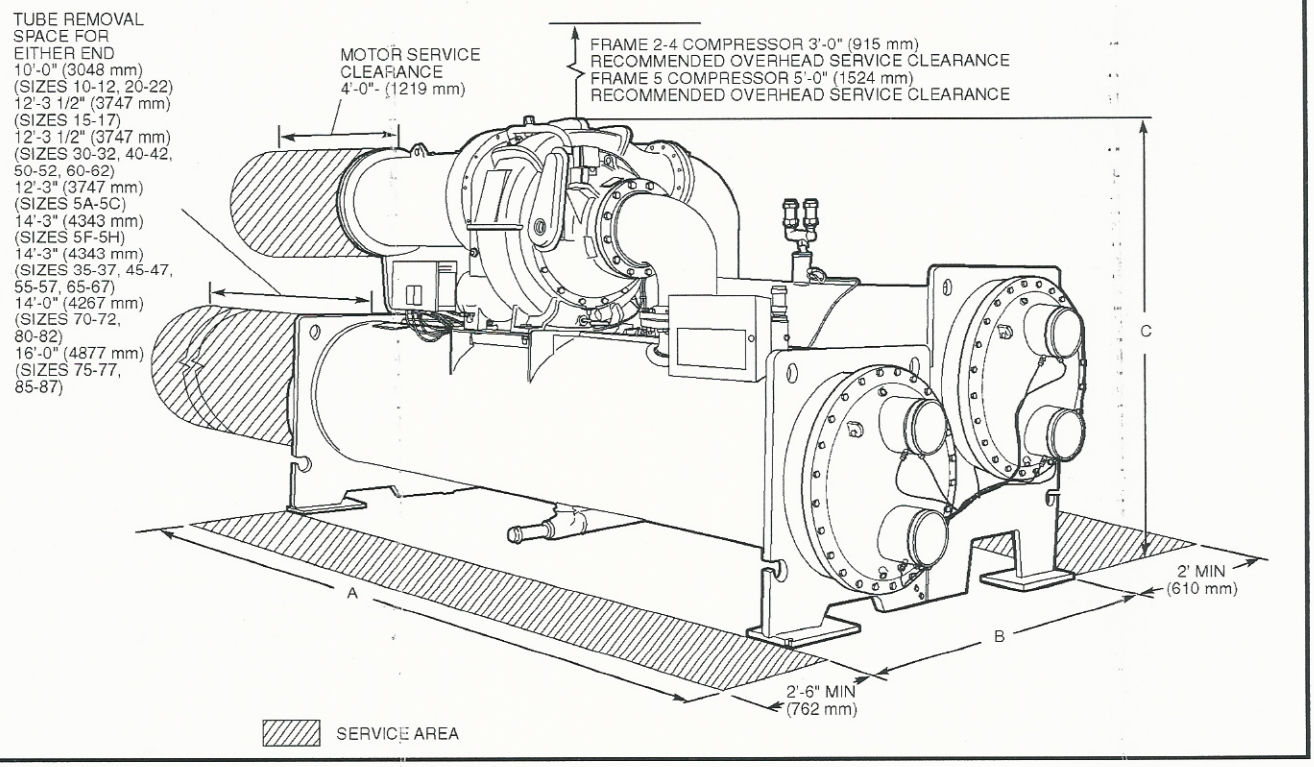
ARI PERFORMANCE CERTIFIED

ARI Standard 550/590 WC

ARI (Air Conditioning and Refrigeration Institute) Performance Certified

*Refer to 19XR, 19XRV Computer Selection Program for details on these sizes.
†Refer to the 19XR, 19XRV Computer Selection Program for motor code details.

19XR DIMENSIONS



19XR DIMENSIONS (Marine Waterbox)

HEAT EXCHANGER SIZE	A (Length, Marine Waterbox)				19XR B WIDTH		19XRV B WIDTH		19XR,XRV C HEIGHT
	2-Pass*		1 or 3-Pass†						
	ft-in.	mm	ft-in.	mm	ft-in.	mm	ft-in.	mm	
10 to 12	NA	NA	NA	NA	NA	NA	NA	NA	
15 to 17	NA	NA	NA	NA	NA	NA	NA	NA	
20 to 22	12- 5 1/2	3797	14- 1 1/4	4299	6- 1 1/16	1856	6- 1 1/16	1856	
30 to 32	14- 9	4496	16- 4 3/4	4997	6- 1 1/16	1856	6- 1 1/16	1856	
35 to 37	16- 5 1/2	5017	18- 1 1/4	5518	6- 1 1/16	1856	6- 1 1/16	1856	
40 to 42	15- 2 3/4	4642	16- 8 1/4	5086	6- 3 1/4	1911	6- 3 1/4	1911	
45 to 47	16-11 1/4	5163	18- 4 3/4	5607	6- 3 1/4	1911	6- 3 1/4	1911	
50 to 52	15- 3 1/2	4661	16- 8 1/2	5093	6- 8 7/8	2054	6- 8 7/8	2054	
5A to 5C	15- 3 1/2	4661	16- 8 1/2	5093	6- 8 7/8	2054	6- 8 7/8	2054	See Note 6
55 to 57	17- 0	5182	18- 5	5613	6- 8 7/8	2054	6- 8 7/8	2054	
5F to 5H	17- 0	5182	18- 5	5613	6- 8 7/8	2054	6- 8 7/8	2054	
60 to 62	15- 4 1/8	4677	16- 8 3/4	5099	6-11 3/4	2127	6- 11 3/4	2127	
65 to 67	17- 0 5/8	5197	18- 5 1/4	5620	6-11 3/4	2127	6- 11 3/4	2127	
70 to 72	17- 10 3/4	5455	19- 9 3/4	6039	8- 8 1/8	2645	9- 5 7/8	2778	
70 to 72	17- 10 3/4	5455	19- 9 3/4	6039	8- 8 1/8	2645	9- 6 3/8	2905	
75 to 77	19- 10 3/4	6188	21- 9 3/4	6648	8- 8 1/8	2645	9- 6 3/8	2905	
80 to 82	18- 0 5/8	5502	19-10 1/2	6058	9- 6	2896	10- 5	3175	
85 to 87	20- 0 5/8	6112	21-10 1/2	6668	9- 6	2896	10- 5	3175	

*Assumes both cooler and condenser nozzles on same end of chiller.
†1 or 3-pass length applies if cooler is a 1 or 3-pass design.
NOTES:
1. Service access should be provided per American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) 15, latest edition, National Fire Protection Association (NFPA) 70, and local safety code.
2. Allow at least 3 ft (915 mm) overhead clearance for service rigging for frame 2-4 compressor. Overhead clearance for service rigging frame 5 compressor should be 5 ft (1524 mm).
3. Dimensions are approximate. Certified drawings available upon request.
4. Marine waterboxes may add 6 in., to the width of the machine. See certified drawings for details.
5. 'A' length dimensions shown are for standard 150 psig design and victaulic connections. The 300 psig design and/or flanges will add length. See certified drawings.
6. 19XR,XRV height — check certified drawings.
7. Not all waterbox/pass combinations are available with unit-mounted VFD. Check selection program for availability.

Physical data

19XR COMPRESSOR AND MOTOR WEIGHTS*— STANDARD AND HIGH EFFICIENCY MOTORS

COMPRESSOR FRAME SIZE 2†, LOW VOLTAGE MOTORS

MOTOR SIZE	ENGLISH						SI					
	Compressor Weight** (lb)	Stator Weight†† (lb)		Rotor Weight (lb)		End Bell Cover (lb)	Compressor Weight** (kg)	Stator Weight (kg)		Rotor Weight (kg)		End Bell Cover (kg)
		60 Hz	50 Hz	60 Hz	50 Hz			60 Hz	50 Hz	60 Hz	50 Hz	
BD	2300	1014	1014	240	255	182	1044	460	460	109	116	83
BE	2300	1053	1053	252	273	182	1044	478	478	114	124	83
BF	2300	1096	1102	266	294	182	1044	498	500	121	133	83
BG	2300	1160	1160	289	311	182	1044	527	527	131	141	83
BH	2300	1160	1198	289	328	182	1044	527	544	131	149	83
BJ	2300	1198	—	328	—	182	1044	544	—	149	—	83
JB	2300	1003	1063	226	248	—	1043	455	482	103	112	—
JC	2300	1063	1113	248	263	—	1043	482	505	112	119	—
JD	2300	1113	1149	263	278	—	1043	505	521	119	126	—
JE	2300	1149	1196	278	295	—	1043	521	542	126	134	—
JF	2300	1196	—	295	—	—	1043	542	—	134	—	—

COMPRESSOR FRAME SIZE 3†, LOW AND MEDIUM VOLTAGE MOTORS

MOTOR SIZE	ENGLISH						SI					
	Compressor Weight** (lb)	Stator Weight†† (lb)		Rotor Weight (lb)		End Bell Cover (lb)	Compressor Weight** (kg)	Stator Weight†† (kg)		Rotor Weight (kg)		End Bell Cover (kg)
		60 Hz	50 Hz	60 Hz	50 Hz			60 Hz	50 Hz	60 Hz	50 Hz	
KB	2816	965	995	221	229	274	1278	438	452	100	104	124
KC	2816	995	1015	229	236	274	1278	452	461	104	107	124
KD	2816	1015	1045	236	244	274	1278	461	474	107	111	124
KE	2816	1045	1065	244	251	274	1278	474	484	111	114	124
KF	2816	1065	1090	251	259	274	1278	484	495	114	118	124
KG	2816	1090	1110	259	267	274	1278	495	504	118	121	124
CD	2816	1220	1238	288	313	274	1278	554	562	131	142	124
CE	2816	1253	1285	305	330	274	1278	569	583	138	150	124
CL	2816	1261	1328	305	346	274	1278	572	603	138	157	124
CM	2816	1321	1380	313	363	274	1278	600	627	142	165	124
CN	2816	1369	1423	330	379	274	1278	622	646	150	172	124
CP	2816	1411	1444	346	387	274	1278	641	656	157	176	124
CQ	2816	1419	1522	363	387	274	1278	644	691	165	176	124
CR	2816	1522	—	346	—	274	1278	691	—	157	—	124

*Total compressor weight is the sum of the compressor aerodynamic components (compressor weight column), stator, rotor, and end bell cover weights.
†Compressor size number is the first digit of the compressor code. See Model Number Nomenclature on page 5.
**Compressor aerodynamic component weight only. Does not include motor weight.
††Stator weight includes the stator and shell.
***For high-voltage motors, add the following: 300 lb (136 kg) to stator, 150 lb (68 kg) to rotor, and 40 lb (18 kg) to end bell.

NOTE: Standard-efficiency motor designations are followed by the letter S (e.g., BDS); high-efficiency motor designations are followed by the letter H (e.g., BDH). See Model Number Nomenclature on page 5.